

# Notice of Allowability

Application No.

10/032,058

Examiner

Terry L Englund

Applicant(s)

YONEZAWA, KATSUYUKI

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Interview (Nov 24, 2003) and Amdt (Nov 25, 2003).
2. ☒ The allowed claim(s) is/are 11-15 (now renumbered 1-5, respectively for printing purposes).
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

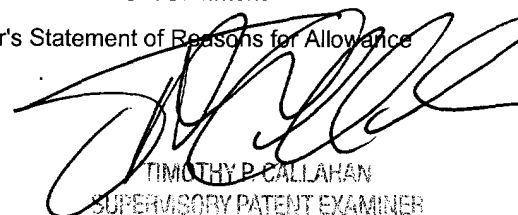
7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☒ including changes required by the proposed drawing correction filed 02 December 2002, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |  |  |
|--|--|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                     |
| 2 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                    | 6 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>12302003</u> . |
| 3 <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. _____  | 7 <input checked="" type="checkbox"/> Examiner's <del>Amendment</del> Comment                  |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance            |
|  | 9 <input type="checkbox"/> Other   |

  
TIMOTHY P. CALLAHAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800

**DETAILED ACTION**

***Response to Amendment***

The amendment submitted on Nov 25, 2003 was reviewed and considered with the following results:

The amended changes to pages 26 and 30 of the disclosure overcame the “diode-connected transistors” related objections described in the previous Office Action. Therefore, those objections have been withdrawn.

The cancellation of claim 10 rendered its objections and rejections moot.

Amended claims 11-15 overcame all of their respective objections and rejections, which have now been withdrawn.

The above official amendment relates to an interview on Nov 24, 2003 between the applicant’s representative Peter Rasihd and the examiner, wherein a submitted draft amendment (with amended claims 11-15, and a proposed new claim 16) was discussed.

Since the various concerns with claims 11-15 were addressed/corrected, and the proposed new claim 16 was not in the official amendment, there is no known objection or rejection remaining within the present application.

***Reasons for Allowance***

The following is an examiner’s statement of reasons for allowance:

None of the prior art references considered show or disclose a filter circuit, with first and second circuits (having symmetrically identical configurations), as recited within each of independent claims 11-15. More specifically, none of the references clearly show or disclose the filter circuit comprising at least a first connection node, a first capacitor, and the first circuit

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comprising first/second differential circuits, wherein: 1) each of the first/second differential circuits comprise a plurality of fundamental circuits connected in series as recited within claim 11, wherein each fundamental circuit/stage has a specific structure (e.g. each stage of the first differential circuit comprises a first transistor and four parallel diode-connected transistors, and each stage of the second differential circuit comprises a second transistor and four parallel transistors); 2) the first differential circuit comprises a plurality of fundamental circuits connected in series, and the second differential circuit comprises a plurality of fundamental circuits connected in parallel to the first differential circuit's fundamental circuits as recited within both of claims 12 and 13; 3) the filter circuit also includes a second connection node, second capacitor, and a direct current power supply connected to the first and second circuits as recited within claim 14; and 4) the filter circuit of claim 15 also includes a second connection node and second capacitor. [One of ordinary skill in the art would clearly understand the filter circuit's "symmetrically identical configuration" with respect to the applicant's figures (i.e. claims 11-15 correspond to Figs. 6-9, and 11, respectively). For example, 15A1,16A1 and 15B1,16B1 of the applicant's Fig. 6 correspond to the respective first and second circuits recited within claim 11, wherein 15A1 is the first differential circuit (e.g. with one fundamental circuit comprising first transistor Q11-1 and four parallel diode-connected transistors Q12-1 through Q15-1), 16A1 is the second differential circuit (e.g. with one fundamental circuit comprising second transistor Q20-1 and four parallel transistors Q16-1 through Q19-1), and 15B1,16B1 comprising the second circuit having a symmetrically identical configuration with respect to first circuit 15A1,16A1.] Since there is no motivation to modify or combine any prior art reference(s)

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to ensure all of the specific relationships within each differential circuit is met, the claims are deemed allowable over the prior art references of record.

Claims 11-15 are allowable, and have been renumbered as 1-5, respectively for printing purposes. The renumbering takes into account the cancellation of claims 1-10.

## **INFORMATION ON HOW TO EFFECT DRAWING CHANGES**

### **Replacement Drawing Sheets**

Drawing changes must be made by presenting replacement figures which incorporate the desired changes (e.g. approved proposed drawing changes submitted on Dec 2, 2002), and which comply with 37 CFR 1.84. An explanation of the changes made must be presented either in the drawing amendments, or remarks, section of the amendment. Any replacement drawing sheet must be identified in the top margin as "Replacement Sheet" and include all of the figures appearing on the immediate prior version of the sheet, even though only one figure may be amended. The figure or figure number of the amended drawing(s) must not be labeled as "amended." If the changes to the drawing figure(s) are not accepted by the examiner, applicant will be notified of any required corrective action in the next Office action. No further drawing submission will be required, unless applicant is notified.

Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin.

### **Annotated Drawing Sheets**

A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be submitted or required by the examiner. The annotated drawing sheets must be clearly labeled as "Annotated Marked-up Drawings" and accompany the replacement sheets.

### **Timing of Corrections**

The applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.85(a). Failure to take corrective action within the set period will result in ABANDONMENT of the application.

If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability.

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Any comments considered necessary by the applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication, or previous communications, from the examiner should be directed to Terry L. Englund whose telephone number is (703) 308-4817. The examiner can normally be reached Monday-Friday from 7 AM to 3 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached on (703) 308-4876. The fax number for TC 2800 is (703) 872-9318 for communications before a final action has been mailed, and (703) 872-9319 for communications after a final action.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

  
Terry L. Englund

30 December 2003